

## LISTING OF CLAIMS

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2       1. (Currently Amended) A computer-implemented method for  
3 processing data, the method comprising:

4       in an operating environment supporting a pipeline of a plurality of object-  
5 based commands, a subsequent command within the pipeline being configured to  
6 communicate with a prior command within the pipeline through a parseable object  
7 emitted from the prior command, the operating environment configured to support  
8 the execution of the commands within the same process,

9       receiving the parseable object emitted from the prior command, the  
10 parseable object having at least one method;

11       obtaining a data type for the parseable object;

12       obtaining format information describing a format for the data type; and

13       emitting a format object for access by another subsequent command, the  
14 format object being based on the format information.

15       2. (Original) The computer-implemented method of claim 1, wherein  
16 obtaining format information comprises accessing an XML-based document.

17       3. (Original) The computer-implemented method of claim 1, wherein the  
18 subsequent command comprises an output command configured to render results  
19 of the pipeline based on the received parseable object and the format object.

20       4. (Original) The computer-implemented method of claim 3, wherein the  
21 rendering of the results comprises displaying on a console.

22       5. (Original) The computer-implemented method of claim 3, wherein the  
23 rendering of the results comprises importing the results into an application.

24       6. (Original) The computer-implemented method of claim 3, wherein the  
25 rendering of the results comprises displaying in a graphical user interface.

1           7.     (Original) The computer-implemented method of claim 1, wherein the  
2 other subsequent command comprises a markup command configured to add  
3 property annotation to selected parameters within the parseable object and emitting  
4 these property annotations for input by further subsequent commands in the  
5 pipeline.

6           8.     (Currently Amended) The computer-implemented method of claim 1,  
7 wherein the other subsequent command comprises a convert command configured  
8 to convert the received parseable ~~stream~~ object into a specific format.

9           9.     (Original) The computer-implemented method of claim 8, wherein the  
10 specific format comprises an XML document, an Active Directory Object, or a  
11 comma separated value format.

12          10.    (Original) The computer-implemented method of claim 8, wherein  
13 another subsequent command comprises a transform command that receives the  
14 specific format from the convert command and transforms the specific format into  
15 another specific format based on a style sheet.

16          11.    (Original) The computer-implemented method of claim 1, wherein  
17 the format information describes the data type and at least one of a shape, a  
18 property, or a header.  
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1           12. (Currently Amended) A computer readable medium having  
2 computer-executable instructions for providing data driven output, the instructions  
3 comprising:

4           receiving a parseable object emitted from a prior command within an  
5 operating environment that supports a pipeline of a plurality of object-based  
6 commands and that is configured to support the execution of the commands within  
7 the same process, the prior command being one of the plurality of commands,

8           obtaining a data type for the parseable object, the parseable object having at  
9 least one method;

10          obtaining format information describing a format for the data type; and

11          emitting a format object for access by a subsequent command from the  
12 plurality of commands, the format object being based on the format information.

13          13. (Original) The computer readable medium of claim 12, wherein  
14 obtaining format information comprises accessing an XML-based document.

15          14. (Original) The computer readable medium of claim 12, wherein the  
16 subsequent command comprises an output command configured to render results  
17 of the pipeline based on the received parseable object and the format object

18          15. (Original) The computer readable medium of claim 12, wherein the  
19 other subsequent command comprises a markup command configured to add  
20 property annotation to selected parameters within the parseable object and emitting  
21 these property annotations for input by further subsequent commands in the  
22 pipeline.

23          16. (Currently Amended) The computer readable medium of claim 12,  
24 wherein the other subsequent command comprises a convert command configured  
25 to convert the received parseable object stream into a specific format.

1           **17.**    (Original) The computer readable medium of claim 16, wherein the  
2 specific format comprises an XML document, an Active Directory Object, or a  
3 comma separated value format.

4           **18.**    (Original) The computer readable medium of claim 16, wherein  
5 another subsequent command comprises a transform command that receives the  
6 specific format from the convert command and transforms the specific format into  
7 another specific format based on a style sheet.

8           **19.**    (Original) The computer readable medium of claim 12, wherein the  
9 format information describes the data type and at least one of a shape, a property,  
10 or a header.  
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1           **20.**     (Currently Amended) A system that supports data driven output, the  
2 system comprising:

3                 a processor;

4                 a memory, the memory being allocated for a plurality of computer-  
5 executable instructions which are loaded into the memory for execution by the  
6 processor, the computer-executable instructions performing a method comprising:

7                     receiving a parseable object emitted from a prior command within an  
8 operating environment that supports a pipeline of a plurality of object-based  
9 commands and that is configured to support the execution of the commands within  
10 the same process, the prior command being one of the plurality of commands,

11                     obtaining a data type for the parseable object, the parseable object having at  
12 least one method;

13                     obtaining format information describing a format for the data type; and

14                     emitting a format object for access by a subsequent command from the  
15 plurality of commands, the format object being based on the format information.

16           **21.**     (Original) The system of claim 20, wherein obtaining format  
17 information comprises accessing an XML-based document.

18           **22.**     (Currently Amended) ~~The~~The system of claim 20, wherein the  
19 format information describes the data type and at least one of a shape, a property,  
20 or a header.

21           **23.**     (Currently Amended) ~~The~~The system of claim 20, wherein the other  
22 subsequent command comprises a markup command configured to add property  
23 annotation to selected parameters within the parseable object and emitting these  
24 property annotations for input by further subsequent commands in the pipeline.  
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1           **24.**   (Original) The system of claim 20, wherein the other subsequent  
2 command comprises a convert command configured to convert the received  
3 parseable stream into a specific format.

4           **25.**   (Original) The system of claim 20, wherein another subsequent  
5 command comprises a transform command that receives the specific format from  
6 the convert command and transforms the specific format into another specific  
7 format based on a style sheet.

1       **26.**   (New) A method for providing a data driven command line output,  
2 the method comprising:

3       receiving a command-line instruction containing an output command  
4 configured to receive at least one object, the object having at least one method; and  
5       executing the output command to manipulate the at least one object and to  
6 output a result to an output destination.

7       **27.**   (New) The method of claim 26, wherein the command line  
8 instruction is received and the output command is executed in an object-based  
9 command-line environment.

10       **28.**   (New) The method of claim 27, wherein the output command is  
11 provided by the command-line environment.

12       **29.**   (New) The method of claim 26, wherein outputting the result  
13 comprises displaying the results on a console.

14       **30.**   (New) The method of claim 26, wherein outputting the result  
15 comprises importing the results into an application.

16       **31.**   (New) The method of claim 26, wherein outputting the result  
17 comprises displaying the results in a graphical user interface.

18       **32.**   (New) The method of claim 26, further comprising another  
19 command configured to provide the at least one object to the output command.

20       **33.**   (New) The method of claim 32, wherein the other command  
21 comprises a format command configured to emit display information associated  
22 with the at least one object.

23       **34.**   (New) The method of claim 33, wherein the output command  
24 ignores the display information when outputting the result.  
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1       **35.**   (New) The method of claim 34, wherein the other command  
2 comprises a markup command configured to add a property annotation to a  
3 parameter within the at least one object.

4       **36.**   (New) The method of claim 32, wherein the other command  
5 comprises a convert command configured to convert the at least one object into a  
6 specific format.

7       **37.**   (New) The method of claim 36, wherein the specific format  
8 comprises an XML document, an Active Directory Object, or a comma separated  
9 value format.